

ALDES Model ERV 200S is a compact Energy Recovery Ventilator designed to exhaust stale indoor air and supply fresh air from outdoors. With airflows up to 200 CFM, this unit can meet the ventilation requirements (0.35 Air changes per hour—ASHRAE 62-1999) of homes up to 4000 square feet. This model can provide significant energy savings on the heating and cooling costs of fresh air.

ALDES' ERV200S features a plate type enthalpy core that transfers both sensible and latent (water vapor) heat between the two air streams. Sensible heat performance is important during the heating season. It is a measure of the temperature rise of the incoming fresh air and reduces the load on the heating system. Total efficiency (sensible and latent) is important for the air conditioning season, as it represents the reduction of the cooling load.

During the summer, when outdoor air is hot and humid, while the indoor temperature is maintained at a lower temperature by air conditioning, the ERV rejects both sensible and latent heat (humidity) from the fresh air to the exhaust air, to reduce the ventilation load on the air conditioner by 55%.

**200S
ENERGY RECOVERY
VENTILATOR**

PART NO.
28 075



During the winter, an ERV also recovers humidity from the exhaust air to partly humidify the supply air, reducing the need for humidification. The sensible heat performance is similar to an HRV, (Heat Recovery Ventilator) in that it also recovers heat from the exhaust air to temper the fresh outdoor air close to room temperature. (During cold weather, both HRV's and ERV's act to lower indoor humidity by ventilation with drier outdoor air, but an ERV can recover a sig-

nificant amount of the available humidity, to avoid overly-dry indoor conditions.)

The ERV 200S is ideally suited to the mixed climates of moderate winters (*temperatures above 0°F*) and humid summers. For colder climates, the model ERV 200SD is recommended. This unit features defrost protection to the coldest air, shielding the enthalpy core from freezing conditions. This unit is also provided with a dehumidistat.

GENERAL FEATURES

- **ERV 200S:** One enthalpic core for total heat transfer (sensible and latent—water vapor) for year round energy savings, optimized for warm humid climates.
- No drain required.
- Low maintenance, no moving parts in the exchange core.
- Insulated 20-gauge powder coated galvanized steel cabinet.
- Five speed motor drives a centrifugal blower in each air stream. Quiet, high efficiency PSC motor, 120 V., 1.4 Amps, 164 Watts on high speed.
- Washable filters, one in each air stream protects the core. Easy to access and clean.
- Complete line of accessories, controls, ducting, grilles.
- Airflow balancing kit for rent or purchase to assure balanced airflows.
- Request the HRV/ERV Design Guide to plan your installation.
- 5 Year warranty on core.
- 2-Year warranty on replacement parts.

200S PERFORMANCE

Net supply airflow in CFM (L/s) against external static pressure

	E.S.P.	CFM	L/s
@	.1" (25 Pa)	214	(101)
@	.2" (50 Pa)	206	(97)
@	.3" (75 Pa)	193	(91)
@	.4" (100 Pa)	184	(87)
@	.5" (125 Pa)	170	(80)
@	.6" (150 Pa)	155	(73)
@	.7" (175 Pa)	137	(65)

Sensible Effectiveness
@ 127 cfm (60 L/s) CSA C439M 67%

Sensible Efficiency
@ 127 cfm (60 L/s) @ 32° F (0°C) 60%

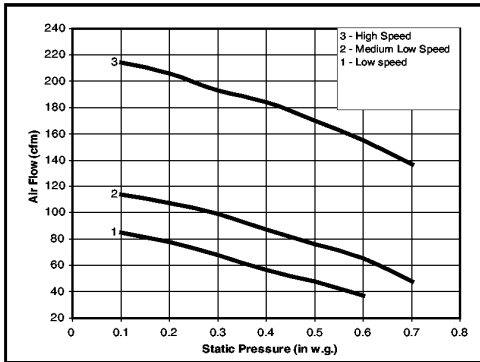
Total Efficiency
@ 127 cfm (60 L/s) @ 95°F (35°C) 55%

VAC @ 60 HZ 120

Watts / Low speed 70

Watts / High speed 182

Amp rating 1.4



All units conform to
CSA and UL standards.

SPECIFICATIONS

General: Unit shall be completely wired and includes blowers, filters, heat exchange core and control panel.

Cabinet: 33-5/8" x 14-3/4" x 19" H (854 x 375 x 483 mm H) Constructed of 20 gauge pre-painted galvanized steel (G60). Interior insulated where surface is exposed to cold air. Access door is hinged and latched. Disconnect switch engaged by door panel.

Heat/Energy Exchange: Plate type enthalpy cross-flow core.

Air Filter: Washable air filter in exhaust and supply air streams.

Blower: Two centrifugal type with direct drive PSC motor and rubber isolated mount. Five speed motor controlled by autotransformer (120VAC / 60Hz / 1 ph).

Controls: Digital BASE MODULE operation. Illuminated display board, optional remote devices connect to low voltage (12VAC) terminals.

Operating Controls (optional):

- 28 998 Sixty Minute Timer (2 wire)
- 28 860 AirCycler FR™ 24 volt control for HVAC fan. (Does not connect to ERV)
- 28 879 Digital Electronic Timer (3 wire)
- 28 881 Programmable Ventilation Control (PVC), includes programmable timer, dehumidistat, multi-speed controller.
- 28 882 Remote Dehumidistat, SPST, 20-80% RH, low voltage, wall mount.
- 28 883 Dehumidistat Ventilation Control (DVC), remote dehumidistat with ERV system On/Off switch. (3 wire).
- 29 023 7-Day Programmable Timer. 6 ON/OFF cycles/day, (2 wire)

Capacities: ALDES model ERV 200S

Air Quantity	214 cfm (125 L/s)
Ext. Static Pressure	0.1" wg (25 Pa)
Heat Recovery Efficiency (Sensible)	70% at 32°F (0°C)
Total Efficiency	55% at 95°F (35°C)

Acceptable Manufacturer:

American ALDES Ventilation Corporation

Warranty: 5 year warranty on heat exchanger core. Two (2) year parts warranty.

Accessories:

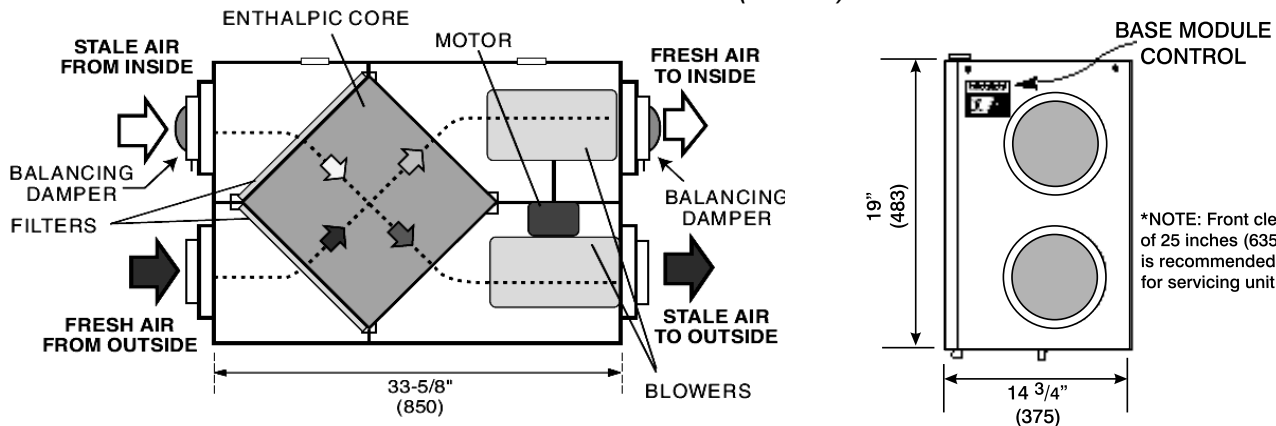
22 026 Weatherhoods, two 6" (150 mm) provided with 1/4" (6 mm) mesh screen, 12" sleeve, insulating duct collar, 2 required.

Weight:

63 lbs (28.7 kg) Shipping Weight: 87 lbs. (40 kg)
(includes pallet)

DIMENSIONS 200S inches (mm)

*All duct connections 6" (150mm)



PROJECT

DATE

SUBMITTED BY

CONTRACTOR

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